



PCT

RAW SEQUENCE LISTING

DATE: 09/29/2004

PATENT APPLICATION: US/10/508,810

TIME: 16:46:23

Input Set : A:\59150-8031-seqlist.txt

Output Set: N:\CRF4\09292004\J508810.raw

3 <110> APPLICANT: Otsuki, Hiroshi
 4 Ohshima, Masahiro
 6 <120> TITLE OF INVENTION: Functional Plants, Promoters Used to Create the Same
 7 and the Use Thereof
 9 <130> FILE REFERENCE: 59150-8031
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/508,810
 C--> 12 <141> CURRENT FILING DATE: 2004-09-22
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP02/02817
 15 <151> PRIOR FILING DATE: 2002-03-22
 17 <160> NUMBER OF SEQ ID NOS: 12
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1705
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Oryza sativa
 26 <400> SEQUENCE: 1
 27 atcattaggc caaaagatcc cttattcaca acagtcacata agaaattgct ttctccacag 60
 28 tacacacccat atttggataa ttgcattgga gcaatagatg gtactcacat ccaagttgtg 120
 29 gtgccaaatt cagctgctgt tcaacatagg aatagacata aggagaagag tcagaatgtt 180
 30 atgtttgtct gtgactttga tatgagattt actttcgtgc ttgctggctg gcttgggtcg 240
 31 gttcatgaca tgagggtatt caatgatgca caaactagat ttagtgccaa gtttccaaag 300
 32 ccacctccag gaaagtttta tctcgtagac tcgggatacc caaataggct gggttatcta 360
 33 gcaccataca aggggtataac atatcattcc aagagtacaa cgaaagcaca ttgccaaggg 420
 34 gaagaaggga gcactttaat tactgccatt attcgtgtcg gaatgtcata gagaggtcat 480
 35 ttgggggtctt gaagaacaag tggaggattt tgtttagttt acctagctac tcgcaggaaa 540
 36 aacaaagcag aattatccat gcattgatag cacttcataa tttcattaga gacagtcaaa 600
 37 tggctaatac agagttcgac aattgtgacc atgatgaaaa ttatgatcca ttgggtggaa 660
 38 cctctgctcc atctagtga ccaacaaagc atttggactc gcgtgtcatg aaccaatttc 720
 39 gggactgggt tgccgatgga ttgtgggtctt tgaaaggaaat gtaatgaatg gttcaaattt 780
 40 attgtgaatt gtatttggtt taacttgtca attgaaccat gagtgtttgt aatttgtaac 840
 41 attgaaactt ctgtgatgta tttcaacaac ttgagatgtg tatgagcttc tttgaatttc 900
 42 tgtgattagg ccgtgatatt gatgatgaaa atgatgtggg gggtattgct tgtgattcgg 960
 43 cttgctgaag gtgtgtattt gtccaaatta tgatggatta aaacatgtga tgttgggggtg 1020
 44 aaacattgat ttggcttgca tttgggtgtg ctgtcatgca gcaacaatgg ttttgcctgt 1080
 45 aaagtgtcag cagcggcagc aaacagcatg ctgcagcaag gggcatgggt cagtcactt 1140
 46 tgtatggttt tagggggtaa tatggtcatt gtgcagcgca ttttaataaac tttagtcctt 1200
 47 tttagtcctt ataaccaaac agttatggac taaaatgatt agtcctaaga ctaaaataag 1260
 48 tccctaggac ttatggatcc aaacaccacc atagtagaag ctatggcgcg gggcgcgagt 1320
 49 ccgggtggca gcattcttga tagagtggca gccgtccacc ggccgcttca tcgcgcgtgg 1380
 50 cggcagtcga cccagtatgc cgtcgtgggt aaccaatcgg catcgagacc tatcgcgagg 1440
 51 acgaagccaa ccgttcgaat ggtgtgcgcg cgtgcattgca tgcgcgcggt ctcagttaat 1500
 52 gcattgcctc tcccagatca agtggcgtgc tatgtttgca gaggcaaaca tgcattgagca 1560
 53 gatggcctgg tgaacttata tactcccgcc aggcaagtga agtgcattgc tgtatagctt 1620

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/508,810

DATE: 09/29/2004

TIME: 16:46:23

Input Set : A:\59150-8031-seqlist.txt

Output Set: N:\CRF4\09292004\J508810.raw

```

54 gagcaagtat ttggcagttt gctgccaaact gctaccctat ttcaaatacta ggtaagatct 1680
55 agctgcagggt tatacagaga aggca 1705
58 <210> SEQ ID NO: 2
59 <211> LENGTH: 1543
60 <212> TYPE: DNA
61 <213> ORGANISM: Oryza sativa
63 <400> SEQUENCE: 2
64 gatccaaggc atcattccca actacagaag tgcgaggaac atatgttcca ccttccatg 60
65 taaattcttg catgaacttg gaaaataaaa tggtcgtttt agaattgtata atccctgtcc 120
66 tacgcaaatt tataactaaa gctaactgtt cattgaatct ttcaggttga gctatatcgc 180
67 aacgatcagc accgcttcaa gattgttggt gatggtgaga gcgaagttga cttgatgggt 240
68 caaactcggc acatgcgaga cgtcatcatt ctggtgatta gaggtcttgc tcaaaagttc 300
69 aacagcacat ctctcaactc actcctcaag atagaagcat gaagatcgag ttgccaacct 360
70 gatataactt acagtatgaa accgattaga aaaggttggt cagtatcgat tcaagttggt 420
71 tagtttgagg gatgtgtaat atttatagga tttggagcgt ggcagctttt gtgtatgggt 480
72 gtggttgagt gtgttaaagt tttcttttt ctcaaatacag ggcggggttg ctctctgac 540
73 cctggttttc catactcacg aaatgtacat aggaaaggga ggggttggtga tatggtgttg 600
74 cattaatata caagttgtgt atgcagttct catattaggc tatatgattg attgggaaga 660
75 tttctgtttt tttctggctc gtcacgttg gtttcatata caaaattcga aatggaaata 720
76 tgtacgagt atggttattg aagtgtccat tctattttta tcttttgcgc gttgtgaggt 780
77 aatctcatcg tgggttaggc ttacagcagt aagatgcgtc gccaccgttg tttcacattg 840
78 caaaatccat tttctgaatt gcaagcaatg ggcttcaagt tcttgattat ttcagttcat 900
79 gactcggcat agcaccagca aaggagcaac tggtaaagtg gcacatccac ttcagtgtcg 960
80 atgcaagcaa ctcatccag cctacaggaa cagtaaatac aggttcattt actcattttt 1020
81 ctgtggttga aaaataccaa gatttccatt tttcttactg ctccacataa ttctatttc 1080
82 ccattctctt gcacttatcc cagcctacag ggacagtaaa tccaggttca tttactcatt 1140
83 tttctgcggt tgaaaaaata ccaagatttc ctttttttt actgctccac ataattcctc 1200
84 tttcccatcc tcttgtccac tatatatgcc tgtcaatttt tttgacagaa catgcatcaa 1260
85 gtcaccacca acaacatttg cagctgcac caagaacatt gcagtcagag gtgagcatct 1320
86 tatccacatt ggcaggctct aaccaggaga tgccacatca gcagcaagga tctgtaacct 1380
87 atccatgagt ggcactgca gtccacaagc tccccttggt gctcccatcc cacatctcct 1440
88 ccaagaatta aagcccaatg catctccatg gtggcactgg acattatttt ttttccctga 1500
89 aactcagctg caaggagaaa ggagaaggta ggggttccag ccc 1543
92 <210> SEQ ID NO: 3
93 <211> LENGTH: 661
94 <212> TYPE: DNA
95 <213> ORGANISM: Oryza sativa
97 <400> SEQUENCE: 3
98 ctgaagcatc gatgtttccc tgctctcatt tatctttctt ccatgtaagc aaatttgtct 60
99 aggtgacacc agagagagac ggtaaataat agtaaataat agcctttgta cattccctta 120
100 tgtagttgtg cagtctatct ttggtgtgag agttcggagt tgaagtgtt ctgaagaatc 180
101 tcttcttgta atttctagaa atggcattga ggaaattacc agtcttggct taaaaacaag 240
102 tctgtctcgt cattcacctg gcttatttag gacttgttca actcctgtag aaattctcga 300
103 aaattcctcg actttaaatg gagccttacc attttttagc agatgcaaca actattatac 360
104 tctacactga tgaactgatg ggactgtgca gcgatcgata tgtgcatgtg gccatgtccg 420
105 aagctaatta aaggacggaa ggaccacaag ttggtgtata ataattggaga gggcattgaa 480
106 tcattgtttc aatatcccca tcagataata ttcaataact cctatggtga cgtcaagcat 540
107 caatacatga aggttacttg ttaccaccat cagacaagca tataattgat tgctctgatc 600
108 aagcgatagc aaaacaaaat acaaaccaga acagtctcaa agctcgccca agcagagaag 660

```

RAW SEQUENCE LISTING

DATE: 09/29/2004

PATENT APPLICATION: US/10/508,810

TIME: 16:46:23

Input Set : A:\59150-8031-seqlist.txt

Output Set : N:\CRF4\09292004\J508810.raw

```

109 a 661
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 48
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
120 <400> SEQUENCE: 4
121 gtaatacgac tcaatatagg gcacgcgtgg tcgacggccc gggctggg 48
124 <210> SEQ ID NO: 5
125 <211> LENGTH: 28
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
132 <400> SEQUENCE: 5
133 atgcaagctt tcgacggccc gggctggg 28
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 31
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
144 <400> SEQUENCE: 6
145 gcatggatcc tgccttctct gtataacctg c 31
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 1735
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: promoter cassette
156 <400> SEQUENCE: 7
157 aagctttcga cggccccgggc tggatatcatt aggccaaaag atcccttatt cacaacagtc 60
158 cataagaaat tgctttctcc acagtacaca ccatatttgg ataattgcat tggagcaata 120
159 gatgggtactc acatccaagt tgtggtgcc aattcagctg ctgttcaaca taggaataga 180
160 cataaggaga agagtcagaa tggtatgtt gtctgtgact ttgatatgag atttactttc 240
161 gtgcttgctg gctggcctgg .ttcggttcat gacatgaggg tattcaatga tgcacaaact 300
162 agatttagtg ccaagtttcc aaagccacct ccaggaaagt tttatctcgt agactcggga 360
163 tacccaaata ggctgggtta tctagcacca tacaagggtta taacatatca ttccaagagt 420
164 acaacgaaag cacattgcc aaggggaaga gggagcactt taattactgc cattattcgt 480
165 gtcggaatgt catagagagg tcatttgggg tcttgaagaa caagtggagg attttgttta 540
166 gtttacctag ctactcgag gaaaaacaaa gcagaattat ccatgcatgc atagcacttc 600
167 ataatttcat tagagacagt caaatggcta atacagagtt cgacaattgt gaccatgatg 660
168 aaaattatga tccattgggt ggaacctctg ctccatctag tgaaccaaca aacgatttgg 720
169 actcgcgtgt catgaaccaa ttctgggact gggttgccga tggattgtgg tctttgaaag 780
170 gaatgtaatg aatggttcaa atttatttg aattgtattt ggtttaactt gtcaattgaa 840
171 ccatgagtgc ttgtaatttg taacattgaa acttctgtga tgtatttcaa caacttgaga 900
172 tgtgtatgag cttctttgaa tttctgtgat taggccgtga tattgatgat gaaaatgatg 960
173 tgggggttat tgcttgtgat tcggcttgct gaaggtgtgt atttgtccaa attatgatgg 1020

```

RAW SEQUENCE LISTING

DATE: 09/29/2004

PATENT APPLICATION: US/10/508,810

TIME: 16:46:23

Input Set : A:\59150-8031-seqlist.txt

Output Set : N:\CRF4\09292004\J508810.raw

```

174 attaaaacat gtgatgttgg ggtgaaacat tgatttggct tgcatttggg tgtgctgtca 1080
175 tgcagcaaca atggttttgc ttgtaaagtg ctagcagcgg cagcaaacag catgctgcag 1140
176 caaggggcat ggtgcagtc accctttagt gttttagggg gtaatatggg cattgtgcag 1200
177 cgcatttaat aaactttagt ccttttagt cctataacc aaacagttat ggactaaaat 1260
178 gattagtctt aagactaaaa taagtcccta ggacttatgg atccaaacac caccatagta 1320
179 gaagctatgg gcggggggcg cagtcggggg ggcagcatct tcgatagagt ggcagccgtc 1380
180 caccggccgc ttcacgcgc gtggcgccag tccaccagc atgccgtcgt gggtaaccaa 1440
181 tcggcatcga gacctatccg cgggacgaag ccaaccgttc gaatgggtgt cgcgcgtgca 1500
182 tgcattgcgc cgggtctcag taatgcattg cctctccga gtcaagtggc gtgctatgtt 1560
183 tgcagaggca aacatgcag agcagatggc ctggtgaact tatatactcc cggcaggcaa 1620
184 gtgaagtgca tgctgtata gcttgagcaa gtatttggca gtttgcgtcc aactgctacc 1680
185 ctatttcaaa tctaggttaag atctagctgc aggttataca gagaaggcag gatcc 1735
188 <210> SEQ ID NO: 8
189 <211> LENGTH: 30
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
196 <400> SEQUENCE: 8
197 atgcaagctt gatccaaggc atcattccca 30
200 <210> SEQ ID NO: 9
201 <211> LENGTH: 30
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
208 <400> SEQUENCE: 9
209 gcatggatcc ggctggagcc taccttctcc 30
212 <210> SEQ ID NO: 10
213 <211> LENGTH: 1555
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: promoter cassette
220 <400> SEQUENCE: 10
221 aagcttgatc caaggcatca ttcccaacta cagaagtgcg aggaacatat gttccaccct 60
222 tccatgtaaa ttcttgcag aacttggaaa ataaaatgtt cgttttagaa tgtataatcc 120
223 ctgtctacg caaatattata actaaagcta actgttcatt gaatctttca ggttgagcta 180
224 tategcaacg atcagcaccg cttcaagatt gttgttgatg gtgagagcga agttgacttg 240
225 atggtgcaaa ctgggcacat gcgagacgtc atcattctgg tgattagagg tcttgctcaa 300
226 aagttcaaca gcacatctct caactcactc ctcaagatag aagcatgaag atcgagttgc 360
227 caacctgata taacttacag tatgaaaccg attagaaaag gttgttcagt atcgattcaa 420
228 gttgtttagt ttggaggatg tgtaatatat ataggatttg gagcgtggca gcttttgtgt 480
229 atgggtgtgg ttgagtgtgt taaagttttt ctttttctca aatcaggagc gggttgctct 540
230 tctgaccctg gttttccata ctacagaaat gtacatagga aaggaggagg tggatgatg 600
231 gtgttgcat aatatacaag ttgtgtatgc agttctcata ttaggtata tgattgattg 660
232 ggaagatttt ctgttttttc tggtcgtcga tcgttggttt catatacaaa attcgaaatg 720
233 gaaatatgta cgagtgatgg ttattgaagt gtccattcta ttttaattct ttgcgcgttg 780
234 tgaggtaatc tcatcgtggt gtaggcttac agcagtaaga tgcgtcgcca ccgttgtttc 840

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/508,810

DATE: 09/29/2004

TIME: 16:46:23

Input Set : A:\59150-8031-seq1ist.txt

Output Set: N:\CRF4\09292004\J508810.raw

```

235 acattgcaaa atccatttct gcaattgcaa gcaatgggct tcaagttctt gattatttca 900
236 gttcatgact cggcatagca ccagcaaagg agcaactggg aaagtggcac atccacttca 960
237 gtgtcgatgc aagcaactca ttccagccta caggaacagt aaatccaggt tcatttactc 1020
238 atttttctgt ggttgaaaaa taccaagatt tccatttttc ttactgctcc acataattcc 1080
239 tatttcccat tctcttgca tttattccagc ctacagggac agtaaatacca ggttcattta 1140
240 ctcatTTTTtC tgcgggttgaa aaaataccaa gatttccatt ttttttactg ctccacataa 1200
241 ttctcttttc ccattctctt gctcactata tatgcctgtc aatttttttg acagaacatg 1260
242 catcaagtca ccaccaacaa catttgca gc catccaag aacattgcat gcagaggtga 1320
243 gcatcttata cacattggca ggctctaacc aggagatgcc acatcagcag caaggatctg 1380
244 taacctatcc atgagtggcc actgcagtcc acaagctccc cttgtggctc ccattccaca 1440
245 tctcctccaa gaattaaagc ccaatgcata tccatgggtg cactggacat tatttttttt 1500
246 cctcgaaact cagctgcaag gagaaaggag aaggtagggg ttccagcccg gatcc 1555
249 <210> SEQ ID NO: 11
250 <211> LENGTH: 28
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
257 <400> SEQUENCE: 11
258 gcatggatcc tcttctctgc ttgggcga 28
261 <210> SEQ ID NO: 12
262 <211> LENGTH: 691
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: promoter cassette
269 <400> SEQUENCE: 12
270 aagcttttoga cggcccgggc tgggtctgaag catcgatgtt tccctgctct catttatctt 60
271 tcttccatgt aagcaaattt gtctaggtga caccagagag agacggtaaa taatagtaaa 120
272 taatagcctt tgtacattcc cttatgtagt tgtgcagtct atttttgggtg tgcgagttcg 180
273 gagttcgaag tgttctgaag aatctcttct tgtaatttct agaaatggca ttgaggaaat 240
274 taccagtctt ggcttaaaaa caagtctgtc tcgtcattca ccgtgcttat ttaggacttg 300
275 ttcaactcct gtagaaattc tcgaaaattc ctgcacttta aatggagcct taccattttt 360
276 tagcagatgc aacaactatt atactcctac ctgatgactg atgaggactg tgcagcgatc 420
277 gatattgtgca tgtggccatg tccgaagcta attaaaggac ggaaggacca caagttgggtg 480
278 tataataatg gagagggcat tgaatcattg tttcaatata cccatcagat aatattcaat 540
279 aactcctatg gtgacgtcaa gcatcaatac atgaaggtta cttgttacca ccatcagaca 600
280 agcatataat tgattgctct gatcaagcga tagcaaaaca aaatacaaac cagaacagtc 660
281 tcaaagctcg cccaagcaga gaagaggatc c 691

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/508,810

DATE: 09/29/2004

TIME: 16:46:24

Input Set : A:\59150-8031-seqlist.txt

Output Set: N:\CRF4\09292004\J508810.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date